PLUMBING ABBREVIATIONS

TAN WAR POWER THAN HE HER GOLD GAR GAR STAND TO THE WAR S	POS POR CONTRACT PACT PACT PROSERVED BY THE PACT PROSERVED BY THE PACT PACT PACT PACT PACT PACT PACT PACT	ASD ASD ASSO AS ASSO ASSO ASSO ASSO ASSO
GALLON GRADE CLEANOUT GRADE CLEANOUT GALLONS PER HOUR GALLONS PER HOUR GALLONS PER MINUTE GAS PER MINUTE GAS PRESSURE REGULATOR GRESSE TRAP GAS VENT THROUGH ROOF GAS FIRED WATER HEATER HOT AND COLD WATER HOSE BIBB HUB DRAIN HEAT EXCHANGER HORSEPOWER HAND SINK HOT WATER STORAGE TANK (DOMESTIC) HOT WATER CIRCULATING PUMP HOT WATER CIRCULATING PUMP HOT WATER PUMP HYDRANT INDUSTRIAL COLD WATER INDUSTRIAL WATER HEATER INDUSTRIAL WATER RETURN INDUSTRIAL WATER RETURN INDUSTRIAL WATER SUPPLY KILOWATT—HOUR	WATEL	ARCHITECT / ENGINEER AREA DRAIN ABOVE FINISH FLOOR ABOVE FINISH FLOOR ABOVE FINISH GRADE AIR GAP ACCESS PANEL AUTOMATIC SPRINKLER DRAIN AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS AMERICAN SOCIETY PLUMBING ENGINEERS AMERICAN SOCIETY PLUMBING ENGINEERS AMERICAN SOCIETY PLUMBING ENGINEERS AUTOMATIC SPRINKLER RISER ACID VENT ACID VENT ACID WASTE REDUCED PRESSURE BACKFLOW PREVENTER BREAK HORSEPOWER BLACK STEEL PIPE BATHTUB BRITISH THERMAL UNIT PER HOUR CELSIUS COMPRESSED GAS ASSOCIATION CAST IRON CLEANOUT CLINICAL SINK CONTROL VALVE DOMESTIC COLD WATER DOMESTIC HOT WATER RETURN DOMESTIC HOT WATER RETURN DOMESTIC HOT WATER RETURN DOMESTIC HOT WATER RETURN
TY SPECE THE TOTAL TO SERVE THE TOTAL THE TOTA	PRO	ORDOCO NEW NO CONTROL OF THE REPORT OF THE PROPERTY OF THE PRO
TEMPERATURE CONTROL VALVE TEMPERATURE DIFFERENCE TRENCH DRAIN TOTAL DYNAMIC HEAD TEMPERATURE THERMOSTATIC MIXING VALVE TRAP PRIMER THERMOSTAT TEMPERED WATER RETURN TEMPERED WATER SUPPLY TYPICAL UNIFORM PLUMBING CODE VENT VACUUM VACUUM BREAKER VACUUM CLEANER OUTLET VACUUM PUMP VENT STACK VENT THROUGH ROOF WASTE WATER CLOSET WATER HAMMER ARRESTER WATER HEATER WATER HEATER WATER METER WATER PRESSURE DROP WASTE STACK YARD CLEANOUT YARD CLEANOUT	OR DIFFEI DRAINAGE DRAINAGE DRAINAGE CING STATIC CING STATIC CING VALVE QUARE INCH QUARE	LITER PER SECOND LABORATORY AIR LAVATORY POUNDS PER HOUR LABORATORY COLD WATER LABORATORY HOT WATER LAUJID NATURAL GAS LIQUID NATURAL GAS LIQUID OXYGEN LABORATORY VACUUM LOW WATER MEDICAL AIR VENT 1000 BTUH MEDICAL AIR VENT 1000 BTUH MEDICAL BASIN METER MEMORANDUM OF UNDERSTADING MANHOLE NORMALLY CLOSED NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NOMINAL NON POTABLE WATER OUTSIDE DIAMETER OUTSIDE DIAMETER OVERFLOW DRAIN OPERATING ROOM OVERFLOW

GENERAL NOTES

- THE PLUMBING SYSTEM SHALL COMFORM TO INTERNATIONAL PLUMBING CODE 2006.
 FOR HOT WATER HEATING AND SUPPLY, PROVIDE A MAXIMUM TEMP OF 122-126 DEG. F AT THE FIXTURE (PER ADA SPECS), UNLESS SPECIFIC APPLIANCES OR EQUIPMENT SPECIFICALLY REQUIRE HIGHER TEMPERATURE WATER SUPPLY. THE TEMPERATURE DROP ACROSS THE SYSTEM SHALL BE NO MORE THAN 6° F.
 UNLESS OTHERWISE SPECIFIED OF DIRECTED, PROVIDE IN ACCORDANCE WITH ASHRAE HANDBOOK SERIES (APPROPRIATE CHAPTERS), ASHRAE STANDARD 90.1, AND THE ENERGY CONSERVATION REQUIREMENTS OF THE CONTRACT. SIZE AND PLACE EQUIPMENT SO THAT IT IS EASILY ACCESSIBLE AND REMOVEABLE FOR REPAIR OR REPLACEMENT.
 SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.
 COORDINATE PLUMBING PIPING WITH AIR CONDITIONING DUCTS, ELECTRICAL CONDUIT AND ALL TRADES.
 CONTRACTOR SHALL VERIFY DISTANCE TO CONNECTION TO EXISTING UTILITIES PRIOR TO BID.
 REFER TO UNITED FACILITIES CODE (UFC) 3-420-01 AND 4-510-01. 3. 2.1
- 7.5.5

PLUMBING PIPING SYMBOLS

GENERAL

PLUMBING SYMBOLS

[V _] [V [V] [V [V [V [V] [V [V [V] [V [V [V] [V [V [V] [V [V] [V]]]])]])])])]	— ы — ы — ы —	— MV —— MV —— MV ——	MA MA MA			
LABORATORY VACUUM	LABORATORY AIR	MEDICAL VACUUM	MEDICAL AIR	DOMESTIC HOW WATER RETURN, HOT WATER RETURN	DOMESTIC HOT WATER, HOT WATER	DOMESTIC COLD WATER, COLD WATER

	DOMESTIC HOW WATER RETURN, H	
A — WA —	MEDICAL AIR	
V	MEDICAL VACUUM	
\[\sqrt{\sq}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}\sqit{\sqrt{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	LABORATORY AIR	
V — [V —	LABORATORY VACUUM	
A —— OA ——	ORAL EVACUATION	
 	INDUSTRIAL AIR	
- 	DRAIN	

| | | SANITARY SEWER
SANITARY SEWER (OPTIONAL)
SANITARY SEWER, BELOW GRADE
SANITARY SEWER VENT

STORM WATER, BELOW GRADE
STORM WATER, BELOW GRADE
SOFTEN COLD WATER
FILTERED COLD WATER
FILTERED COLD WATER
DRINKING WATER SUPPLY
DRINKING WATER RETURN
TEMPERED WATER RETURN
NITROUS OXIDE
OXYGEN
NATURAL GAS
NATURAL GAS, BELOW GRADE
FUEL OIL DISCHARGE
FUEL OIL SUPPLY
FUEL OIL SUPPLY
FUEL OIL RETURN

71.14 \Diamond \Diamond

DIRECTION OF PIPE PITCH (DOWN)
DIRECTION OF FLOW
ANCHOR
REDUCER OR INCREASER
ECCENTRIC REDUCER
TOP CONNECTION, 45° OR 90°
BOTTOM CONNECTION, 45° OR 90° SIDE CONNECTION
CAPPED OUTLET
RISE OR DROP IN PIPE
UNION

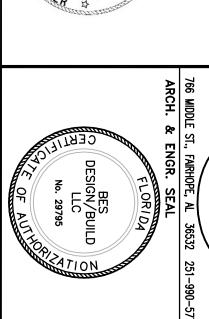
PIPE UP POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK

THERMOMETER
PRESSURE GAGE
FLOW ELEMENT FLOOR DRAIN W/ TRAP PRIMER WATER HAMMER ARRESTOR HOSE BIB (FROSTPROOF) FLOAT & THERMOSTATIC TRAP PIPING ACCESSORIES STRAINER CLEAN OUT INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SET INCLUDING

PLUMBING VALVE SYMBOLS

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AUTOMATIC AIR VENT	TEST PLUG (PRESSURE/TEMPERATURE)	MANUAL AIR VENT	PRESSURE RELIEF VALVE	AUTOMATIC FLOW CONTROL VALVE	PRESSURE REGULATING VALVE	THREE-WAY TWO POSITION CONTROL VALVE	THREE-WAY MODULATING CONTROL VALVE	TWO POSITION CONTROL VALVE	MODULATING CONTROL VALVE	BALL VALVE	BUTTERFLY VALVE	ANGLE GLOBE VALVE	CHECK VALVE	GATE VALVE WITH $3/4$ " HOSE ADAPTER	GLOBE VALVE	GATE VALVE





FINAL

SUBMISSION 6, 2012

IF SHEET IS LESS THAN (30"x42") IT IS A REDUCED PRINT; SCALE ACCORDINGLY

AVAL FACILITIES ENGINEERIN

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	SATISFACTORY TO DATE	PUBLIC WORKS SUPERVISOR		SATISFACTORY TO DATE	FIRE DEPARTMENT		TO DATE	SATISFACTORY	SAFETY DEPARTMENT			SATISFACTORY TO DATE	NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS
PUBLIC WORKS OFFICER			APPROVED DATE	WWB	SUPERVISOR	WWB	CHECKED BY	VEE		DRAWN BY			F.W. DWG. NO.
SCALE NONE M	PROJ. NO.		SIZE CODE IDENT. NO.		LCMDING		NAVAL GO		PANAMA CII			NAVAL	DETAR MEN
MACC. T.O.# SHEET 1 OF 8	CONSTR. CONTR. NO.	N/A	NAVF	AND SYMBOLS	TEOMOING EEGEND, ADDREVIATIONS		NAVAL GULF CUASI MEALIM CANE		TANAMA CITY JOINT OUTTAILENT CLINIC	H;	PANAMA CITY, FLORIDA	NAVAL UCTTOX ACTOR	ANY OF TOO THE ACITITES ENGINEERING COMMAND